Amendments to the Claims:

Please cancel previously presented claims 46-48. Following is a complete listing of the claims pending in the application, as amended:

1-28. (Cancelled)

- 29. (Previously Presented) A method for discriminating a type of an optical storage medium, comprising:
 - employing at least an optical pickup to measure a distance between a reflection layer of the optical storage medium and a surface layer of the optical storage medium;
 - determining a distance error of the measured distance between the reflection layer of the optical storage medium and the surface layer of the optical storage medium;
 - if the distance error is less than a failure threshold, comparing the measured distance with a distance threshold to discriminate a type of the optical storage medium; and
 - if the distance error is greater than or equal to the failure threshold, employing an alternate method to discriminate the type of the optical storage medium.
- 30. (Previously Presented) The method of claim 29, wherein the optical storage medium is discriminated as a DVD if the measured distance is less than a distance threshold.
- 31. (Previously Presented) The method of claim 29, wherein the optical storage medium is discriminated as a CD if the measured distance is greater than a distance threshold.

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32. (Previously Presented) The method of claim 29, wherein the alternate

method comprises:

reading multiple data transition points from a specified range of the optical

storage medium; and

determining a dimension of multiple transition regions in the specified range of

the optical storage medium, the transition regions being an interval

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between neighboring data transition points.

33. (Previously Presented) The method of claim 32, wherein the data

transition points are edges of lands on the optical storage medium.

34. (Previously Presented) The method of claim 32, wherein the alternate

method further comprises:

obtaining a longest transition region in the multiple transition regions; and

comparing a dimension of the longest transition region to a transition region

threshold to discriminate the type of the optical storage medium.

35. (Previously Presented) The method of claim 34, wherein the compared

dimension is a time consumption of the longest transition region and the transition

region threshold is a time threshold.

36. (Previously Presented) The method of claim 35, wherein the optical

storage medium is discriminated as a DVD when the time consumption is less than the

time threshold.

37. (Previously Presented) The method of claim 29, wherein the alternate

method comprises:

accessing synchronous data from a specified range of the optical storage

medium;

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configuring a clock frequency of a PLL at a rate based on the accessed synchronous data to enable further data to be read from the optical storage medium; and

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- comparing the clock frequency of the PLL with a frequency threshold to discriminate the type of the optical storage medium so that the further data can be read.
- 38. (Previously Presented) The method of claim 37, wherein the optical storage medium is discriminated as blank if the clock frequency is substantially zero.
- 39. (Previously Presented) An apparatus for discriminating a type of an optical storage medium, comprising:

an optical disk system, including:

- an optical pickup head configured to receive light reflected from the optical storage medium, and wherein the optical disk system is configured to measure a distance between a reflection layer of the optical storage medium and a surface layer of the optical storage medium, to determine a distance error according to a measurement error associated with the measured distance, to discriminate a type of the optical storage medium according to the measured distance and a distance threshold if the distance error is less than a failure threshold, and to discriminate the type of the optical storage medium without regard to the measured distance and the distance threshold if the distance error is greater than or equal to the failure threshold.
- 40. (Previously Presented) The apparatus of claim 39, wherein the optical disk system is further configured to discriminate the optical storage medium as a DVD if the measured distance is less than the distance threshold.

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- 41. (Previously Presented) The apparatus of claim 39, wherein the optical disk system is further configured to discriminate the optical storage medium as a CD if the measured distance is greater than the distance threshold.
- 42. (Previously Presented) The apparatus of claim 39, wherein the optical disk system is further configured to, determine whether the distance error is greater than or equal to the failure threshold, and if so, to read multiple data transition points from a specified range of the optical storage medium and determine a dimension of multiple transition regions in the specified range of the optical storage medium, the transition regions being an interval between neighboring data transition points.
- 43. (Previously Presented) The apparatus of claim 42, wherein the data transition points are edges of lands on the optical storage medium.
- 44. (Previously Presented) The apparatus of claim 42, wherein the optical disk system is further configured to, determine whether the distance error is greater than or equal to the failure threshold, and if so, to obtain a longest transition region in the multiple transition regions and compare a dimension of the longest transition region to a transition region threshold to discriminate the type of the optical storage medium, wherein the compared dimension is a time consumption of the longest transition region and the transition region threshold is a time threshold.
 - 45. (Previously Presented) The apparatus of claim 39, further comprising:
 - a PLL configured to provide a PLL clock frequency according to a rate based on data accessed from a specified range of the optical storage medium, wherein the optical disk system is further configured to, determine whether the distance error is greater than or equal to the failure threshold, and if so, to configure the PLL clock frequency and compare the PLL clock

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frequency to a frequency threshold to discriminate the type of the optical storage medium.

46 - 48. (Cancelled).